

Docket No.: 57539/C982
Amdt date April 7, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) Apparatus for authenticating the identity of a person, comprising: image processing means for determining an identification code from within an image and for determining face data of a face within the same image.
2. (Original) Apparatus according to claim 1, wherein the image processing means is operable to read said identification code from printed data within said image.
3. (Currently amended) Apparatus according to claim 1-~~or 2~~, wherein the image processing means is operable to locate a tag within said image.
4. (Original) Apparatus according to claim 3, wherein the image processing means is operable to determine said identification code from said tag within said image.
5. (Currently amended) Apparatus according to claim 3-~~or 4~~, wherein the image processing means is operable to locate said tag based on the location of the face within said image.
6. (Currently amended) Apparatus according to ~~any one of claims 3 to 5~~ claim 3, wherein the image processing means is operable to determine said identification code from said tag when the tag is a specific area of any one of: paper, plastic, metal, fabric, an item of clothing and skin.
7. (Currently amended) Apparatus according to ~~any one of the preceding claims~~ claim 1, wherein the image processing means is operable to locate said face from within said image.
8. (Currently amended) Apparatus according to claim 7-~~when dependent on any one of claims 3 to 6~~, wherein the image processing means is operable to locate said face based on the location of the tag within the image.

9. (Currently amended) Apparatus according to ~~any one of the preceding claims~~ claim 1, wherein the image processing means is operable to extract facial features from said face.
10. (Currently amended) Apparatus according to ~~any one of the preceding claims~~ claim 1, further comprising identification code comparator means for matching the determined identification code with a stored identification code in an identification code database.
11. (Currently amended) Apparatus according to ~~any one of the preceding claims~~ claim 1, further comprising face comparator means for matching the determined face data with stored face data in a face data database.
12. (Currently amended) Apparatus according to claims 10-~~and~~ 11, wherein the face data database comprises the identification code database.
13. (Currently amended) Apparatus according to claim 12-~~or according to claims 10 and 11~~, wherein the face data database comprises the identification code database.
14. (Currently amended) Apparatus according to claim 12-~~or 13 or according to claims 10 and 11~~, wherein the face data in the face data database is associated with specific identification codes in the identification code database.
15. (Original) Apparatus according to claim 14, further comprising authentication means to confirm identity authentication when the face comparator means matches the determined face data with stored face data in the face data database and the identification code comparator means matches the determined identification code with the stored identification code associated with the matched stored face data.
16. (Currently amended) Apparatus according to ~~any one of claims 10 and 12 to 15 or according to claim 11 when dependent on~~ claim 10, further comprising stopping means for preventing determination of the face data if no match is made by the identification code comparator means.

17. (Currently amended) Apparatus according to ~~any one of claims 11 to 15~~ claim 11, further comprising stopping means for preventing determination of the identification code if no match is made by the face data comparator means.
18. (Currently amended) Apparatus according to ~~any one of the preceding claims~~ claim 1, further comprising imaging means for providing said image to said image processing means.
19. (Original) A method of authenticating the identity of a person, comprising:
 - determining an identification code from within an image; and
 - determining face data of a face within the same image.
20. (Original) A method according to claim 19, wherein determining an identification code comprises reading said identification code from printed data within said image.
21. (Currently amended) A method according to claim 19-~~or 20~~, further comprising locating a tag within said image.
22. (Original) A method according to claim 21, wherein determining an identification code comprises determining said identification code from said tag within said image.
23. (Currently amended) A method according to claim 21-~~or 22~~, wherein locating a tag comprises locating said tag based on the location of the face within said image.
24. (Currently amended) A method according to ~~any one of claims 21 to 23~~ claim 21, wherein determining an identification code comprises determining said identification code from said tag when the tag is a specific area of any one of : paper, plastic, metal, fabric, an item of clothing and skin.
25. (Currently amended) A method according to ~~any one of claims 21 to 24~~ claim 21, wherein said tag is part of a garment worn by the person in the image.

26. (Currently amended) A method according to ~~any one of claims 19 to 25~~ claim 19, further comprising locating said face from within said image.
27. (Currently amended) A method according to claim 26 ~~when dependent on any one of claims 21 to 25~~, wherein locating said face comprises locating said face based on the location of the tag within the image.
28. (Currently amended) A method according to ~~any one of claims 19 to 27~~ claim 19, further comprising extracting facial features from said face.
29. (Currently amended) A method according to ~~any one of claims 19 to 28~~ claim 19, further comprising matching the determined identification code with a stored identification code.
30. (Currently amended) A method according to ~~any one of claims 19 to 29~~ claim 19, further comprising matching the determined face data with stored face data.
31. (Currently amended) A method according to claim 29 ~~and 30~~, wherein the stored face data is associated with specific stored identification codes.
32. (Original) A method according to claim 31, further comprising confirming identity authentication when the determined face data matches stored face data and the determined identification code matches the stored identification code associated with the matched stored face data.
33. (Currently amended) A method according to ~~any one of claims 29, 31 and 32 or according to claim 30 when dependent on claim 29~~ claim 29, wherein determining the face data is not completed unless the determined identification code is matched with a stored identification code.
34. (Original) A method according to claim 33, wherein determining the face data is not started unless the determined identification code is matched with a stored identification code.

35. (Currently amended) A method according to ~~any one of claims 30 to 32~~ claim 30, wherein determining the identification code is not completed unless the determined face data is matched with stored face data.

36. (Original) A method according to claim 35, wherein determining the identification code is not started unless the determined face data is matched with stored face data.

37. (Currently amended) A method according to ~~any one of claims 19 to 36~~ claim 19, further comprising:

generating said image; and

providing said image for identification code determination and face data determination.

38. (Original) A computer program product having a computer usable medium having a computer readable program code means embodied therein for authenticating the identity of a person, comprising:

computer readable program code image processing means for determining an identification code from within an image and for determining face data of a face within the same image.

39. (Original) A computer program product according to claim 38, wherein the image processing means is operable to read said identification code from printed data within said image.

40. (Currently amended) A computer program product according to claim 38-~~or 39~~, wherein the image processing means is operable to locate a tag within said image.

41. (Original) A computer program product according to claim 40, wherein the image processing means is operable to determine said identification code from said tag within said image.

42. (Currently amended) A computer program product according to claim 40 or 41, wherein the image processing means is operable to locate said tag based on the location of the face within said image.

43. (Currently amended) A computer program product according to ~~any one of claims 40 to 42~~ claim 40, wherein the image processing means is operable to determine said identification code from said tag when the tag is a specific area of any one of : paper, plastic, metal, fabric, an item of clothing and skin.

44. (Currently amended) A computer program product according to ~~any one of claims 38 to 43~~ claim 38, wherein the image processing means is operable to locate said face from within said image.

45. (Currently amended) A computer program product according to claim 44 when dependent on ~~any one of claims 40 to 43~~, wherein the image processing means is operable to locate said face based on the location of the tag within the image.

46. (Currently amended) A computer program product according to ~~any one of claims 38 to 45~~ claim 38, wherein the image processing means is operable to extract facial features from said face.

47. (Currently amended) A computer program product according to ~~any one of claims 38 to 46~~ claim 38, further comprising computer readable program code identification code comparator means for matching the determined identification code with a stored identification code in an identification code database.

48. (Currently amended) A computer program product according to ~~any one of claims 38 to 47~~ claim 38, further comprising computer readable program code face comparator means for matching the determined face data with stored face data in a face data database.

49. (Currently amended) A computer program product according to claims 47 and 48, wherein the face data in the face data database is associated with specific identification codes in the identification code database.

50. (Original) A computer program product according to claim 49, further comprising computer readable program code authentication means to confirm identity authentication when the face comparator means matches the determined face data with stored face data in the face data database and the identification code comparator means matches the determined identification code with the stored identification code associated with the matched stored face data.

51. (Currently amended) A computer program product according to ~~any one of claims 47, 49 and 50 or according to claim 48 when dependent on~~ claim 47, further comprising computer readable program code stopping means for preventing determination of the face data if no match is made by the identification code comparator means.

52. (Currently amended) A computer program product according to ~~any one of claims 48 to 50~~ claim 48, further comprising computer readable program code stopping means for preventing determination of the identification code if no match is made by the face data comparator means.

53. (Currently amended) A computer program product according to ~~any one of claims 38 to 52~~ claim 38, further comprising computer readable program code receiving means for receiving said image for processing by said image processing means.